

ABSTRACT

In the present invention, a recombination of gene groups of nemadectin aglycon biosynthesis is performed for 5 obtaining C-13 hydroxylnemadectin, to which sugar groups can be attached, and a production strain which produces C-13 hydroxylnemadectin is produced. Further, C-13 glycosylnemadectin producing strain is prepared by introducing aveBI-BVIII genes involving glycosidation of avermectin and 10 biosynthesis of oleandrose. As described, C-13 hydroxylnemadectin and C-13 glycosidated nemadectin can be obtained effectively by using the producing strain prepared by means of the molecular genetic technology, and improvement in the biological activity thereof can be expected.